

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 12/2/2009

LOCATION: Susanville
STREAM: Susan River
BASIN: Honey Lake

HSA: REV

REFERENCES:

CADWR RATING TABLE 4, 3/1/2002.
CORRESPONDENCE W/CADWR NORTHERN DISTRICT OFFICE
CORRESPONDENCE W/CADWR SUSANVILLE DISTRICT WATERMASTER
CORRESPONDENCE W/HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT WATERMASTER
CORRESPONDENCE W/LASSEN CO. OES
CORRESPONDENCE W/SUSANVILLE FIRE CHIEF
CORRESPONDENCE W/USGS REDDING PERSONNEL
SURFACE WATER SUPPLY OF THE U.S., PART 10, GREAT BASIN, 1951-1960
USDA SCS: FLOOD CHRONOLOGY, 1861-1976, CALVADA BASIN, E CA/W NV, 9/77
USDA SCS: WTR & RELATED LAND RESOURCES, CNTRL LAHONTAN BSN, 7/1975
USGS COMPILATION OF SURFACE WATERS OF THE U.S. THROUGH 9/1950
USGS FLOODS OF DECEMBER 1964 IN THE FAR WESTERN STATES
USGS FLOODS OF JAN-FEB 1963 IN CA & NV
USGS GAGING STN DESCRIPTION FOR SUSAN R @ SUSANVILLE, 1/1995
USGS JANESVILLE CA 7.5 MINUTE QUADRANGLE
USGS JOHNSTONVILLE CA 7.5 MINUTE QUADRANGLE
USGS LITCHFIELD CA 7.5 MINUTE QUADRANGLE
USGS PK FLOW DATA, 6/1900-12/1905; 2/1917-6/1921; 10/1950-9/1994, 1/97
USGS STANDISH CA 7.5 MINUTE QUADRANGLE
USGS SUSANVILLE CA 1:100,000 SCALE MAP, 1984
USGS SUSANVILLE CA 7.5 MINUTE QUADRANGLE
USGS WATER RESOURCES DATA FOR CA, VOL 4, 1961-1994
USGS WENDEL HOT SPRINGS CA 7.5 MINUTE QUADRANGLE

ABBREVIATIONS:

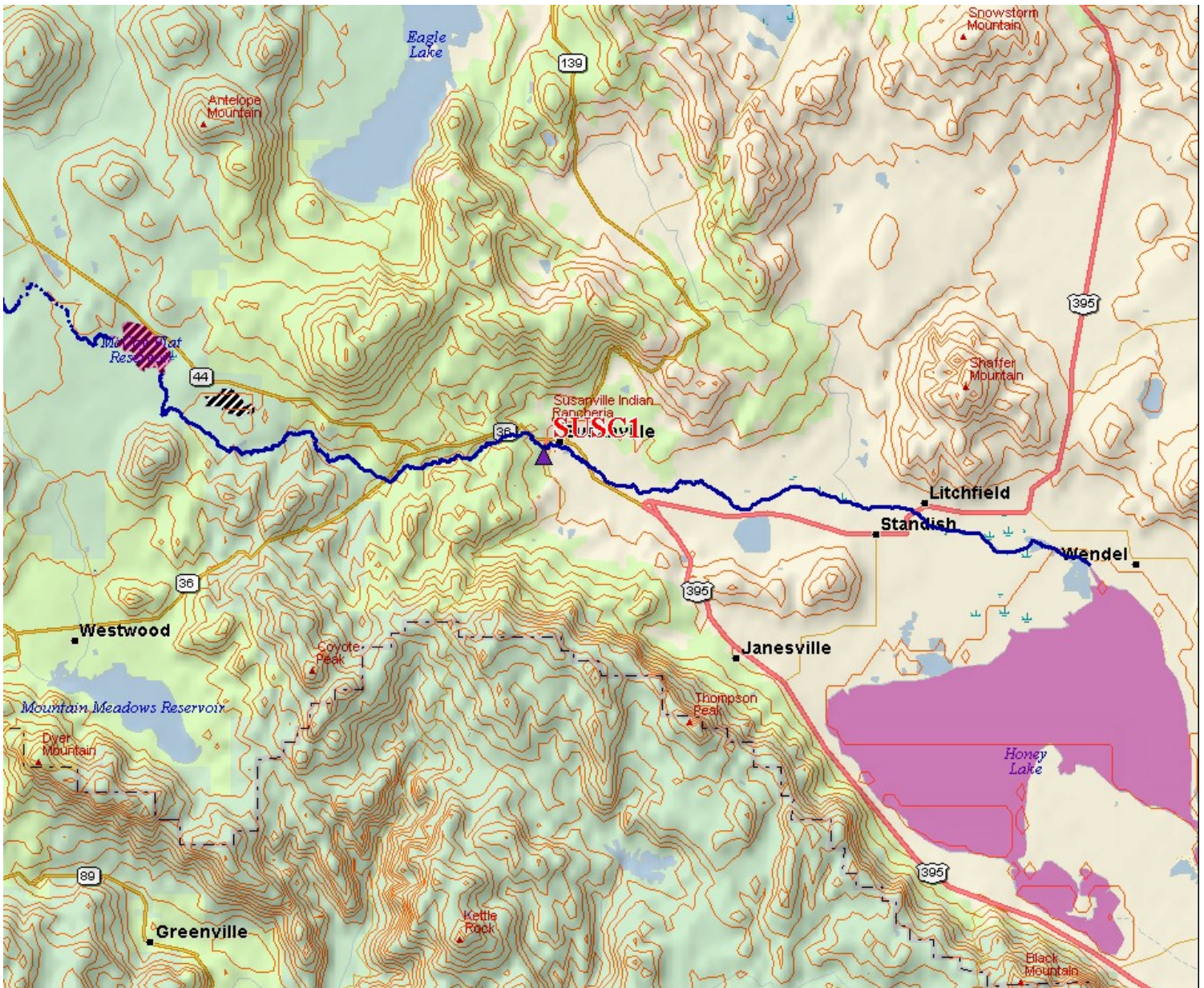
BM - bench mark	EPA - Environmental Protection Agency
DS - downstream	IBWC - International Boundary and Water Comm.
US - upstream	MSRC - Mississippi River Commission
HW - high water	MORC - Missouri River Commission
LW - low water	NOAA - National Oceanic and Atmospheric Admin.
RB - right bank	NOS - National Ocean Survey
LB - left bank	NWS - National Weather Service
MGL - mean gulf level	TVA - Tennessee Valley Authority
MLW - mean low water	USACE - U.S. Army Corps of Engineers
MSL - mean sea level	USBR - U.S. Bureau of Reclamation
MLT - mean low tide	USGS - U.S. Geological Survey
MT - mean tide	USWB - U.S. Weather Bureau
WQ - water quality	NGVD - National Geodetic Vertical Datum
RM - reference mark	NAD - North American Datum
RP - reference point	

LOCATION IDENTIFICATION: SUSC1
NWS INDEX NUMBER:
USGS NUMBER: 10356500

MAP OF GAGE LOCATION

LATITUDE: 40 24 49
LONGITUDE: 120 39 51

SOURCE: CADWR

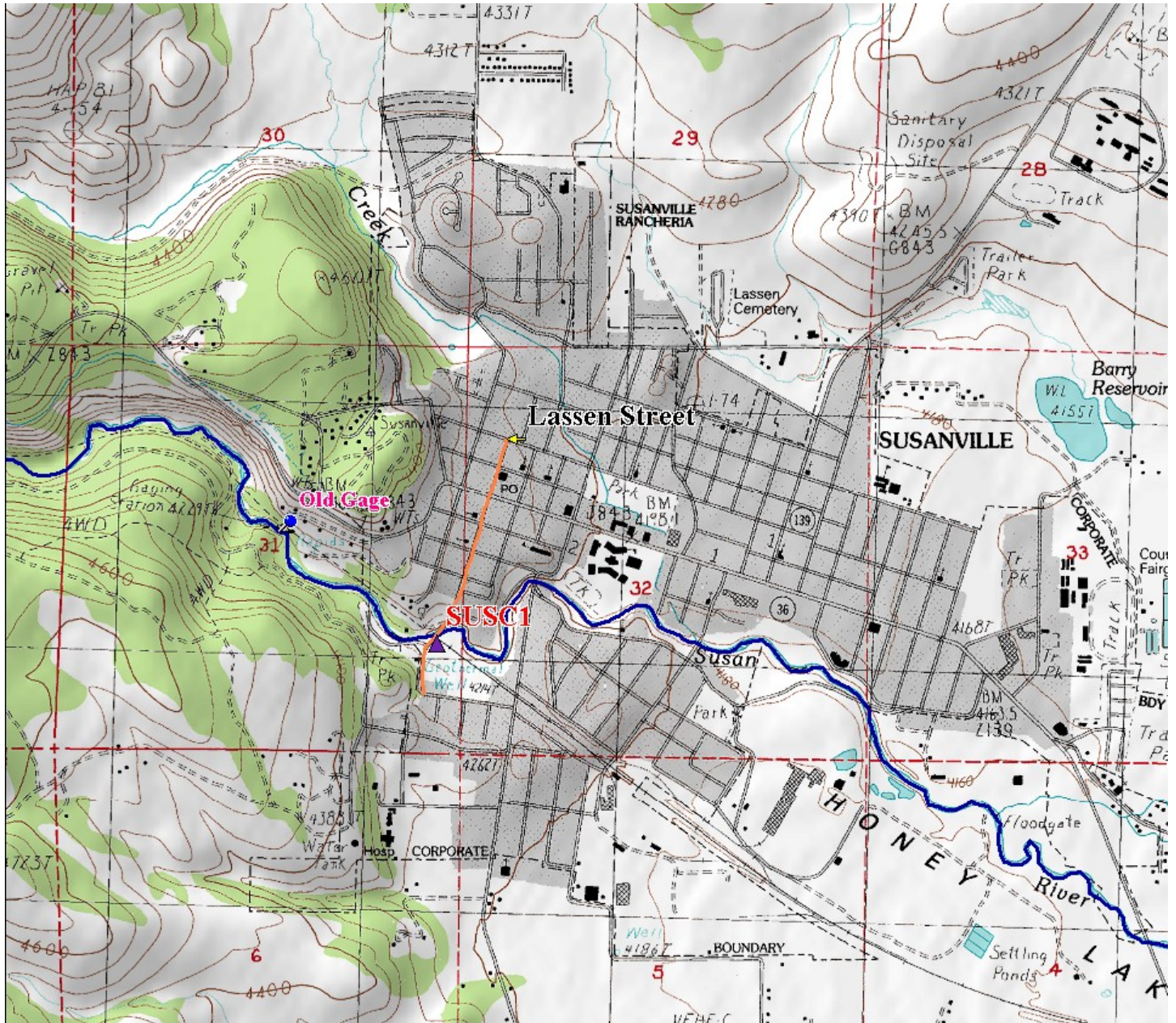


Overview of location of Susanville, CA river gage. The blue line shows the trace of the Susan River from Hog Flat reservoir downstream to Honey Lake.

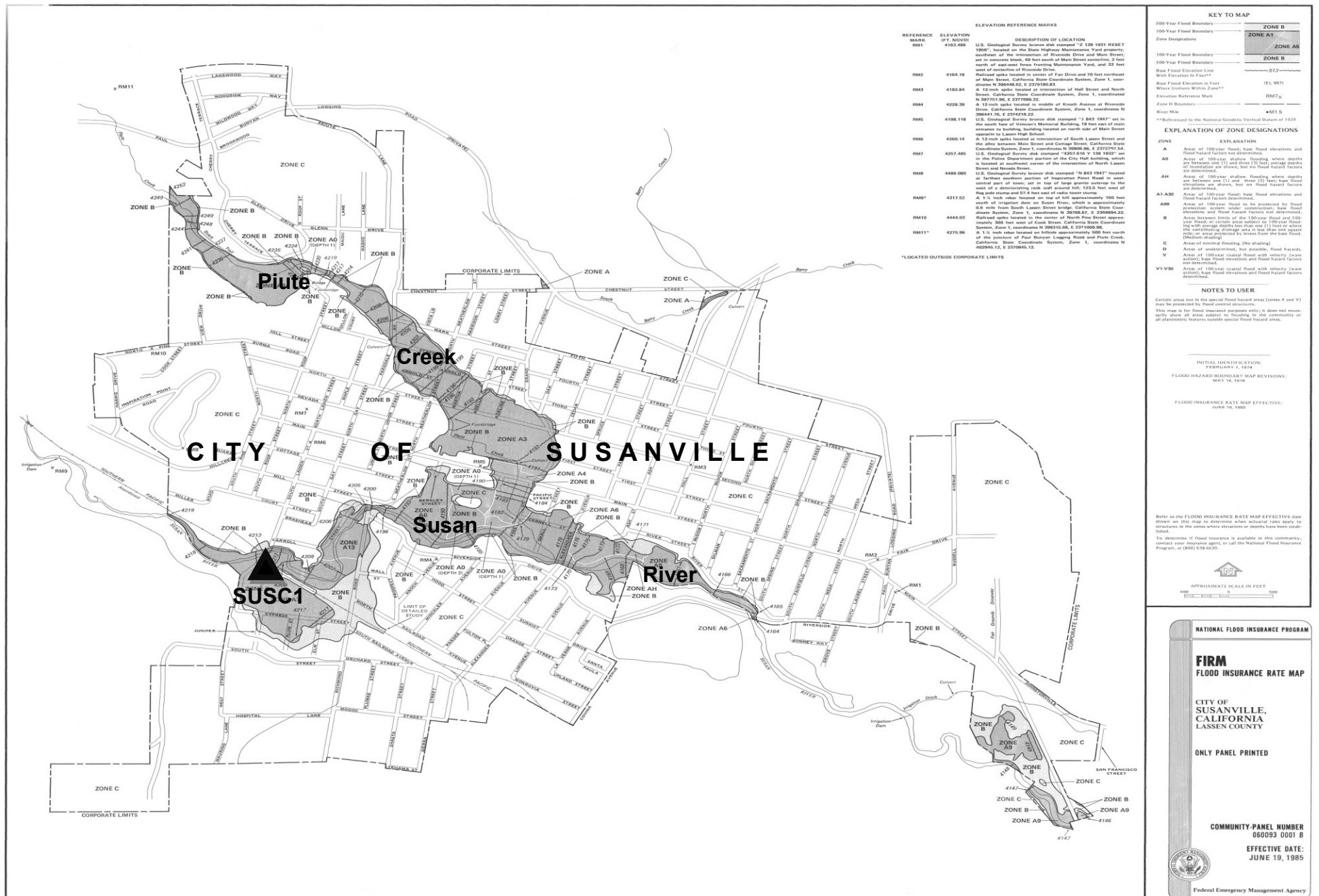
MAP OF GAGE LOCATION

LATITUDE: 40 24 49
LONGITUDE: 120 39 51

SOURCE: CADWR



Close up view of the Susanville, CA River gage location. The gage is located on the Lassen Street Bridge in the southwest part of the town of Susanville. The blue line is the trace of the Susan River through Susanville. Also indicated is the location of the previous gage site approximately 0.5 mile upstream from the current site.



FEMA Flood Insurance Rate Map (FIRM), City of Susanville, CA (6/19/1985). Gage location indicated. (SE portion of area is outside Susanville City Limits so is not included in this map.) Dark gray areas designate annual 1% chance (100-yr) flood zone.

BENCHMARKS

ELEVATION OF GAGE ZERO: 4200.300 VERTICAL DATUM: NGVD1988
LEVELING AGENCY AND DATE: CADWR CHECKBAR: 0.000
RATING AGENCY: CADWR

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
RM2	BRASS TABLET IN LB CABLE ANCHOR BLOCK, LEVELS OF 10/11/1989; AT OLD USGS SITE 0.5 MI. US OF CURRENT CADWR SITE.	51.060	4251.360
RM4	BRASS TABLET SET IN CONCRETE @ BASE OF NO. 2 OUTSIDE STAFF, LEVELS CHECKED 10/11/1989. AT OLD USGS SITE 0.5 MI. UPSTREAM OF CADWR SITE.	28.980	4229.280
RM5	BRASS TABLET SET IN CONCRETE WALKWAY FOOTING ON US SHOREWARD CORNER. LEVELS CHECKED 10/11/1989. AT USGS SITE 0.5 MI US OF CURRENT CADWR SITE.	45.473	4245.773
TBM1	CADWR TEMP BM, CHISELED INTO TOP OF SW WINGWALL (US, RB) OF LASSEN ST BRIDGE; PAINTED W/ORANGE "X". NGVD OF 1988. TIED INTO USGS MONUMENT LOCATED AT SUSANVILLE BANK OF AMERICA. LEVELS OF 10/15/01.	20.820	4221.120

LOCATION: Susan River AT Susanville, CA
ID: SUSC1 HSA: REV

Revised, Printed Dates: 12/2/2009
NWS FORM E-19 PAGE 2: BENCHMARKS

GAGES

DCP

TELEM

NESS ID: 15C18024
 OWNER: STATECA
 REPORT TIME: 00:09:00
 INTERVAL: 180

TYPE OF TELEMETRY:
 OWNER:
 PHONE NUMBER:
 INTERVAL:
 PAYOR/COST OF LINE: / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
FLOAT	USGS	USGS	10/10/1950	09/30/1994	ON LB @ OLD USGS SITE APPROX. 0.5 MI. US LASSEN ST. BRIDGE SITE. FP DIGITAL AND STEVENS A35 RECORDERS IN TANDEM. DRIVEN BY FLOAT THROUGH 9/13/90, THEN BY BUBBLER.
FLOAT	USGS	USGS	10/10/1950	09/13/1990	ON LB @ OLD USGS SITE 0.5 MI US OF LASSEN ST BRIDGE SITE. IN 48" STEEL STILLING WELL. DROVE RECORDER.
IS STAFF	USGS	USGS	10/10/1950	09/30/1994	ON LB @ OLD USGS SITE, APPROX. 0.5 MI. US OF LASSEN ST. BRIDGE SITE. IN ONE SECTION: 3.40-23.7'.
MANUAL	USGS	USGS	10/10/1950	09/30/1994	300' US OF OLD USGS GAGE, APPROX. 0.5 MI. US OF LASSEN ST. BRIDGE SITE. SPAN BETWEEN SUPPORTS 125', TOTAL LENGTH 250'.
STAFF	USGS	USGS	10/10/1950	09/30/1994	ON LB @ OLD USGS SITE APPROX. 0.5 MI. US OF LASSEN ST BRIDGE SITE. IN 4 SECTIONS: 1) 3.34-4.20', 2) 4.14-7.16', 3) 7.1-10.0', 4) 10.1-13.5'.
BUBBLE	USGS	USGS	09/13/1990	09/30/1994	ON LB @ OLD USGS SITE, APPROX. 0.5 MI. US OF LASSEN ST. BRIDGE SITE. DROVE RECORDER.
FLOAT	State DWR	State DWR	10/01/1994	10/01/1998	IN GAGE HOUSE ON DS RB SIDE OF LASSEN ST. BRIDGE IN SUSANVILLE. DRIVEN BY FLOAT.
FLOAT	State DWR	State DWR	10/01/1994	10/01/1998	DS RB SIDE LASSEN ST. BRIDGE IN 36" STEEL STILLING WELL. DROVE RECORDER.
STAFF	State DWR	State DWR	10/01/1994	10/01/1998	DS RB SIDE LASSEN ST. BRDG IN 2 SECTIONS: 3.0-9.0' & 8.0-17.0'.
FLOAT	State DWR	State DWR	10/01/1998		IN GAGE HOUSE ON US RB SIDE OF LASSEN ST. BRIDGE IN SUSANVILLE. DRIVEN BY FLOAT BEFORE 2/26/02, THEN BY BUBBLER.
FLOAT	State DWR	State DWR	10/01/1998	02/26/2002	US RB SIDE LASSEN ST. BRIDGE IN 36" STEEL STILLING WELL. DROVE RECORDER & DCP.
STAFF	State DWR	State DWR	10/01/1998		US RB SIDE LASSEN ST BRIDGE IN 2 SECTIONS: 3.0-9.0' & 8.0-17.0'.
BUBBLE	State DWR	State DWR	04/12/2000		IN GAGE HOUSE ON RB US SIDE OF LASSEN ST. BRIDGE IN SUSANVILLE. DRIVEN BY BUBBLER. NESDIS ID 15C18024. REPORTS EVERY 3 HRS W/ 9 MIN. OFFSET.
BUBBLE	State DWR	State DWR	02/26/2002		IN GAGE HOUSE ON US RB SIDE OF LASSEN ST. BRIDGE. DRIVES RECORDER & DCP.

HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
USDA SUSAN R FLD CHRON.	01/01/1861	12/31/1976
USGS PEAK FLOW DATA	06/01/1900	12/31/1905
USGS WATER RESOURCES DATA	06/01/1900	09/30/1994
USGS PEAK FLOW DATA	02/01/1917	06/30/1921
USGS PEAK FLOW DATA	10/10/1950	09/30/1994
USGS STN DESC., SUSC1	10/10/1950	09/30/1994
USGS FLDS OF 12/1964	12/01/1964	12/31/1964

TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
FLAOT	USGS	10/10/1950	09/30/1994
FLOAT	USGS	10/10/1950	09/13/1990
IS STAFF	USGS	10/10/1950	09/30/1994
MANUAL	USGS	10/10/1950	09/30/1994
STAFF	USGS	10/10/1950	09/30/1994
BUBBLE	USGS	09/13/1990	09/30/1994
FLOAT	State DWR	10/01/1994	10/01/1998
FLOAT	State DWR	10/01/1994	10/01/1998
STAFF	State DWR	10/01/1994	10/01/1998
FLOAT	State DWR	10/01/1998	
FLOAT	State DWR	10/01/1998	02/26/2002
STAFF	State DWR	10/01/1998	
BUBBLE	State DWR	04/12/2000	
BUBBLE	State DWR	02/26/2002	

ZERO ELEVATION	STARTING DATE
4225.720	10/01/1950
4222.320	09/13/1990
4200.300	10/01/1994

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Revised, Printed Dates: 12/2/2009
NWS FORM E-19 PAGE 4: HISTORY

CRESTS

FLOOD STAGE: 12.00 ACTION STAGE: 10.50 BANKFULL STAGE:
 FLOOD FLOW: 2400 ACTION FLOW: 1770

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
02/23/1901	UNDEF	8.50	1050				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM NA.
03/30/1903	UNDEF	11.75	2280				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM NA.
02/22/1904	UNDEF	11.50	2190				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM NA.
01/17/1921	UNDEF	8.56	1070				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM NA.
11/19/1950	UNDEF	10.59	1800				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.30'.
04/04/1952	UNDEF	10.91	1930				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.32'.
01/09/1953	UNDEF	11.70	2260				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.50'.
03/09/1954	UNDEF	9.50	1390				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 4.89'.
12/23/1955	UNDEF	14.40	3540	X			STG FM DWR RT4 (2/1/02) EXTN. STG @ USGS SITE 6.62', FLOW EST FM SLOPE AREA.
02/24/1957	UNDEF	10.33	1700				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.23'
02/24/1958	UNDEF	13.93	3300				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.46'.
02/08/1960	UNDEF	10.54	1780				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.30'.
01/31/1963	UNDEF	15.10	3900				STG EST. FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.78'.
12/22/1964	UNDEF	17.23	5100				STG EST. FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 7.30'.
01/29/1967	UNDEF	9.67	1450				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.51'.
01/21/1969	UNDEF	13.71	3190				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.46'.
01/24/1970	UNDEF	18.47	5850	X			STG FM DWR RT4 (2/1/02) EXTN. STG @ USGS SITE 8.89', FLOW EST FM SLOPE AREA.
03/26/1971	UNDEF	12.29	2520				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.10'.
03/30/1974	UNDEF	13.73	3200				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.69'.
01/13/1980	UNDEF	14.85	3770				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 7.02'.
11/23/1981	UNDEF	16.30	4560	X			STG FM DWR RT4 (2/1/02) EXTN. STG @ USGS SITE 7.95', FLOW EST FM SLOPE AREA.
03/13/1983	UNDEF	13.00	2850				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.69'.
11/24/1983	UNDEF	9.61	1430				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 5.29'.
02/17/1986	UNDEF	17.26	5120				STG EST. FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 8.33'.
03/11/1989	UNDEF	12.75	2730				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 6.59'.
03/17/1993	UNDEF	9.33	1330				STG FROM CADWR RTG #4 (2/1/02) EXTENSION. STG @ OLD SITE/DATUM 8.57'.
01/02/1997	UNDEF	17.31	5150	X			STG FM DWR RT4 (2/1/02) EXTN. STG @ USGS SITE 11.75', FLOW EST FM SLOPE AREA.
02/18/2004	UNDEF	9.23	1294				FROM CDEC, RT4 (2/1/02).
12/31/2005	UNDEF	13.89	3280				FROM CDEC, RT4 (2/1/02).

LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
08/10/1918	3.22	1	STG FROM CADWR RTG #4 (2/1/02), 0.8 CFS
09/10/1951	3.27	3	STG FROM CADWR RTG #4 (2/1/02), 2.5 CFS.
10/01/1951	3.30	4	STG FROM CADWR RTG #4 (2/1/02), 4.0 CFS.
09/11/1953	3.37	7	STG FROM CADWR RTG #4 (2/1/02), 6.5 CFS.
09/10/1954	3.29	4	STG FROM CADWR RTG #4 (2/1/02), 3.6 CFS.
08/16/1955	3.27	3	STG FROM CADWR RTG #4 (2/1/02), 2.6 CFS.
10/03/1955	3.29	4	STG FROM CADWR RTG #4 (2/1/02), 3.5 CFS.
09/08/1957	3.34	6	STG FROM CADWR RTG #4 (2/1/02), 5.6 CFS.
09/21/1958	3.39	7	STG FROM CADWR RTG #4 (2/1/02), 7.4 CFS.
08/05/1959	3.27	3	STG FROM CADWR RTG #4 (2/1/02), 2.6 CFS.
07/25/1960	3.22	1	STG FROM CADWR RTG #4 (2/1/02), 0.8 CFS
08/22/1960	3.22	1	STG FROM CADWR RTG #4 (2/1/02), 0.8 CFS
08/15/1961	3.20	0	STG FROM CADWR RTG #4 (2/1/02), ZERO FLOW
10/06/1961	3.25	2	STG FROM CADWR RTG #4 (2/1/02), 1.7 CFS.
08/18/1962	3.25	2	STG FROM CADWR RTG #4 (2/1/02), 1.7 CFS.
09/02/1963	3.26	2	STG FROM CADWR RTG #4 (2/1/02), 2.3 CFS.
09/08/1964	3.27	3	STG FROM CADWR RTG #4 (2/1/02), 2.6 CFS.
10/02/1964	3.29	3	STG FROM CADWR RTG #4 (2/1/02), 3.3 CFS.
07/27/1966	3.22	1	STG FROM CADWR RTG #4 (2/1/02), 0.8 CFS
10/01/1966	3.27	3	STG FROM CADWR RTG #4 (2/1/02), 2.8 CFS.
08/12/1968	3.25	2	STG FROM CADWR RTG #4 (2/1/02), 1.7 CFS.
10/03/1968	3.30	4	STG FROM CADWR RTG #4 (2/1/02), 3.9 CFS.
07/29/1970	3.38	7	STG FROM CADWR RTG #4 (2/1/02), 7.0 CFS.
10/01/1970	3.40	8	STG FROM CADWR RTG #4 (2/1/02), 7.8 CFS.
08/26/1972	3.31	4	STG FROM CADWR RTG #4 (2/1/02), 4.3 CFS.
08/08/1973	3.31	4	STG FROM CADWR RTG #4 (2/1/02), 4.4 CFS.
10/02/1973	3.41	8	STG FROM CADWR RTG #4 (2/1/02), 8.4 CFS.
09/07/1975	3.44	10	STG FROM CADWR RTG #4 (2/1/02), 9.5 CFS.
07/21/1976	3.28	3	STG FROM CADWR RTG #4 (2/1/02), 3.2 CFS
07/29/1977	3.24	1	STG FROM CADWR RTG #4 (2/1/02), 1.4 CFS
09/03/1978	3.29	4	STG FROM CADWR RTG #4 (2/1/02), 3.6 CFS.
08/09/1979	3.21	0	STG FROM CADWR RTG #4 (2/1/02), 0.44 CFS
10/07/1979	3.26	2	STG FROM CADWR RTG #4 (2/1/02), 2.4 CFS.
08/13/1981	3.24	2	STG FROM CADWR RTG #4 (2/1/02), 1.6 CFS.
10/01/1981	3.31	4	STG FROM CADWR RTG #4 (2/1/02), 4.3 CFS.
10/16/1982	3.53	13	STG FROM CADWR RTG #4 (2/1/02), 13.0 CFS.
09/10/1984	3.35	6	STG FROM CADWR RTG #4 (2/1/02), 5.7 CFS.
08/25/1985	3.27	3	STG FROM CADWR RTG #4 (2/1/02), 2.8 CFS.
11/13/1985	3.32	5	STG FROM CADWR RTG #4 (2/1/02), 4.8 CFS.
08/29/1987	3.23	1	STG FROM CADWR RTG #4 (2/1/02), 1.2 CFS
08/13/1988	3.22	1	STG FROM CADWR RTG #4 (2/1/02), 0.68 CFS
08/22/1989	3.23	1	STG FROM CADWR RTG #4 (2/1/02), 0.94 CFS
09/07/1990	3.20	0	STG FROM CADWR RTG #4 (2/1/02), 0.14 CFS
08/12/1991	3.21	0	STG FROM CADWR RTG #4 (2/1/02), 0.3 CFS
08/19/1992	3.21	0	STG FROM CADWR RTG #4 (2/1/02), 0.38 CFS
10/03/1992	3.21	1	STG FROM CADWR RTG #4 (2/1/02), 0.51 CFS
08/14/1994	3.21	0	STG FROM CADWR RTG #4 (2/1/02), 0.29 CFS
08/15/2001	3.25	2	STG FROM CADWR RTG #4 (2/1/02), 2 CFS.
08/21/2002	3.27	2	FROM CADWR RTG #4 (2/1/02)
11/02/2002	3.28	2	FROM CADWR RTG #4 (2/1/02)
02/05/2004	3.32	3	FROM CADWR RTG #4 (2/1/02)
10/01/2004	3.39	6	FROM CADWR RTG #4 (2/1/02)
12/16/2005	3.31	3	FROM CADWR RTG #4 (2/1/02)

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NWS FORM E-19 PAGE 6: LOW WATER

CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 0.0 DRAINAGE AREA: 184.0 POOL STAGE: 0.0

STREAM BED: SAND AND GRAVEL, ONE CHANNEL @ ALL STGS.

REACH: MC COY FLAT RESERVOIR 20.3 MI. US, TO HONEY LAKE, ABOUT 24 MILES DS.

REGULATION: FLOW REGULATED BY MC COY FLAT AND HOG FLAT RESERVOIRS; COMBINED CAPACITY, 25,300 AF. THESE RESERVOIRS USUALLY GO DRY IN SUMMER. TOTAL AREA OF DRAINAGE COVERED BY LAKES AND RESERVOIRS 3.5 SQ. MILES.

DIVERSION: RAMSEY DITCH 0.5 MI. US DIVERTS UP TO 5 CFS IN SUMMER.

WINTER: SUBSTANTIAL ICE EFFECT IN WINTER, ESPECIALLY DURING LOW FLOWS.

TOPOGRAPHY: ELEV FROM 4200' @ GAGE TO 7650' @ COYOTE PK. FAIRLY FLAT SWAMPY VALLEYS >5600', ~13 MI US OF GAGE, THEN STREAM FLOWS THRU MODERATELY STEEP CYN TO GAGE. MOSTLY CONIFEROUS FOREST W/MEADOWS ABV GAGE. AT GAGE MOSTLY DECIDUOUS TREES W/STEEP BANKS, BOULDERS.

REMARKS: CHANNEL FAIRLY STRAIGHT US W/ROCK RIFFLES. CHANNEL TURNS TO RT DS ABOUT 200'. BOTTOM OF BRIDGE DECK ABOUT 13.5' STAGE, RTG UNRELIABLE ABOVE THIS STG. HOMES ALONG BOTH BANKS NR GAGE.

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NWS FORM E-19 PAGE 7: CONDITIONS

DAMAGE

STAGE	AREAS AFFECTED
10.50	Monitoring stage. Localized minor lowland flooding below Susanville in Johnstonville, Leavitt Lake, Standish, and Litchfield rural areas.
11.00	Local minor lowland flooding below Susanville in Johnstonville, Leavitt Lake, Standish, and Litchfield rural areas.
11.50	Localized minor to moderate lowland flooding below Susanville in the Johnstonville, Leavitt Lake, Standish, and Litchfield rural areas.
12.00	Flood Stage. Several homes on Carroll Street in Susanville begin to flood. Local flooding in Susanville from Lassen Street downstream along Riverside Drive, especially below Piute Creek which enters river near Alexander Drive. Moderate lowland flooding below Susanville in Johnstonville, Leavitt Lake, Standish, and Litchfield areas. Some rural roads affected by flooding.
12.50	Minor to moderate flooding in Susanville from Lassen Street downstream along Riverside Drive. Several homes along river affected, especially on Carroll Street. Moderate lowland flooding below Susanville in Johnstonville, Leavitt Lake, Standish, and Litchfield areas. Rural roads and bridges begin to flood in these areas.
13.00	Moderate flooding in Susanville from Lassen Street downstream along Riverside Drive. Some homes along river have moderate flood affects, especially on Carroll Street. Significant lowland flooding below Susanville in Johnstonville, Leavitt Lake, Standish, and Litchfield areas. Rural roads and bridges in these areas flood. Similar to flood of 3/13/1983.
13.50	Moderate to major flooding in Susanville, Johnstonville, Leavitt Lake, Standish, and Litchfield. Susanville flooded from Lassen Street downstream along Riverside Drive and from Cornell/River Street on north to Hood Street/Sunkist Drive on south. River up to botton of Lassen Street bridge. Many homes along river have minor to moderate flooding. Many roads and bridges in the Honey Lake Valley area flood, with moderate transportation impacts. Similar to 3/30/1974 and 1/21/1969 floods.
14.00	Major flooding in Susanville, Johnstonville, Leavitt Lake, Standish, and Litchfield. Susanville flooded from Lassen Street downstream along Riverside Drive and from Main St (Highway 36) on north to railroad tracks on south. Many homes, businesses, schools, roads, and bridges in the Honey Lake Valley area flooded. Serious transportation impacts. Impacts to power, phone, and rural water systems begin. Similar to 2/24/1958 flood.
14.50	Major flooding in Susanville, Johnstonville, Leavitt Lake, Standish, and Litchfield areas in Honey Lake Valley. Susanville flooded from Lassen Street downstream along Riverside Drive and from Main Street (Highway 36) on north to railroad tracks on south. Serious flood impacts to homes, businesses, schools, roads, and bridges throughout Honey Lake Valley. US Highway 395 flooded. Serious transportation impacts, moderate impacts to power, phone, and rural water systems. Similar to 12/23/1955 flood.
15.00	Major flooding in Susanville, Johnstonville, Leavitt Lake, Standish, and Litchfield areas. Major flooding in Susanville from Lassen Street downstream along Riverside Drive, and from Main Street (Highway 36) on north to railroad tracks on south. Serious flood impacts to homes, businesses, schools, roads, and bridges throughout Honey Lake Valley. US Highway 395 flooded. Serious transportation, power, phone, and rural water system impacts. Similar to 1/31/1963 and 1/13/1980 floods.
15.50	Major flood damage from Susanville to Honey Lake. Flooding of homes, businesses and schools in flood plain throughout Honey Lake Valley, including Susanville. Extensive damage to transportation systems as roads, bridges, and culverts are flooded or washed out. US Highway 395 is flooded. Major transportation, power, phone, and rural water system impacts. Similar to 1/31/1963 flood.
16.00	Extensive flood damage from Susanville to Honey Lake. Serious flood impacts to homes, businesses, schools, roadways, and bridges in flood plain throughout Honey Lake Valley. Transportation impacts may be serious as US Highway 395 and Highway 36 are flooded. Extensive power, phone, and rural water system impacts. Similar to 11/23/1981 flood.
16.50	Extensive flood damage from Susanville to Honey Lake with flooding of homes, businesses, schools, roadways, bridges, and water systems in flood plain throughout Honey Lake Valley. Extensive transportation, power, phone, and rural water system impacts. US Highway 395 and Highway 36 flooded. Similar to 11/23/1981 flood.
17.00	Flood disaster from Susanville to Honey Lake. Extensive flooding of homes, businesses, schools, roadways, bridges, and water systems in flood plain throughout Honey Lake Valley. Transportation very difficult as US Highway 395 and Highway 36 flooded or washed out. Extensive power, phone, and rural water system impacts. Slightly less severe than floods of 12/22/1964, 2/17/1986, and 1/02/1997.
17.50	Disastrous flooding, with near record flooding from Susanville to Honey Lake. Extensive damage to homes, businesses, schools, roadways, bridges, and water systems in flood plain throughout Honey Lake Valley. Transportation in valley very difficult as US Highway 395 and Highway 36 flooded or washed out. Extensive power, phone, and rural water system impacts. Similar to floods of 12/22/1964, 2/17/1986, and 1/02/1997.

DAMAGE

STAGE	AREAS AFFECTED
18.00	Near record flooding from Susanville to Honey Lake. Extensive damage to homes, businesses, schools, roads, bridges, and water systems in flood plain throughout Honey Lake Valley, including Susanville area. Transportation in and out of Honey Lake Valley cut off as US Highway 395 and Highway 36 flooded or washed out. Extensive power, phone, and rural water system impacts. Only exceeded by flood of 1/24/1970.
18.50	Record flooding from Susanville to Honey Lake. Extensive damage to homes, businesses, schools, road, bridges, and water systems throughout Honey Lake Valley, including Susanville area. Transportation in and out of valley cut off, as US Highway 395 and Highway 36 is flooded or washed out. Extensive power, phone, and rural water system impacts. Exceeds record flood of 1/24/1970.

LOCATION: Susan River AT Susanville, CA
ID: SUSC1

HSA: REV

Revised, Printed Dates: 12/2/2009
NWS FORM E-19 PAGE 8-2: DAMAGE

RIVER STAGE DATA

	23-		

	21-		

	19-		

18.50 - Record flooding from Susanville to Honey Lake. Extensive damage to homes, businesses, schools, road, bridges, and water systems throughout Honey Lake Valley, including Susanville area. Transportation in and out of valley cut off, as US Highway 395 and Highway 36 is flooded or washed out. Extensive power, phone, and rural water system impacts. Exceeds record flood of 1/24/1970.	-----	18.47	01/24/1970

	17-	17.31	01/02/1997

18.00 - Near record flooding from Susanville to Honey Lake. Extensive damage to homes, businesses, schools, roads, bridges, and water systems in flood plain throughout Honey Lake Valley, including Susanville area. Transportation in and out of Honey Lake Valley cut off as US Highway 395 and Highway 36 flooded or washed out. Extensive power, phone, and rural water system impacts. Only exceeded by flood of 1/24/1970.	-----	16.30	11/23/1981

	15-	15.10	01/31/1963
	-----	14.85	01/13/1980
	-----	14.40	12/23/1955
	-----	13.93	02/24/1958
	-----	13.73	03/30/1974
17.50 - Disastrous flooding, with near record flooding from Susanville to Honey Lake. Extensive damage to homes, businesses, schools, roadways, bridges, and water systems in flood plain throughout Honey Lake Valley. Transportation in valley very difficult as US Highway 395 and Highway 36 flooded or washed out. Extensive power, phone, and rural water system impacts. Similar to floods of 12/22/1964, 2/17/1986, and 1/02/1997.	13-	13.00	03/13/1983
	-----	12.29	03/26/1971

17.00 - Flood disaster from Susanville to Honey Lake. Extensive flooding of homes, businesses, schools, roadways, bridges, and water systems in flood plain throughout Honey Lake Valley. Transportation very difficult as US Highway 395 and Highway 36 flooded or washed out. Extensive power, phone, and rural water system impacts. Slightly less severe than floods of 12/22/1964, 2/17/1986, and 1/02/1997.	-----	11.75	03/30/1903
	11-		
	-----	10.91	04/04/1952
	-----	10.59	11/19/1950

16.50 - Extensive flood damage from Susanville to Honey Lake with flooding of homes, businesses, schools, roadways, bridges, and water systems in flood plain throughout Honey Lake Valley. Extensive transportation, power, phone, and rural water system impacts. US Highway 395 and Highway 36 flooded. Similar to 11/23/1981 flood.	-----	9.67	01/29/1967
	9-	9.33	03/17/1993

16.00 - Extensive flood damage from Susanville to Honey Lake. Serious flood impacts to homes, businesses, schools, roadways, and bridges in flood plain throughout Honey Lake Valley. Transportation impacts may be serious as US Highway 395 and Highway 36 are flooded. Extensive power, phone, and rural water system impacts. Similar to 11/23/1981 flood.	-----	8.56	01/17/1921

	7-		

15.50 - Major flood damage from Susanville to Honey Lake. Flooding of homes, businesses and schools in flood plain throughout Honey Lake Valley, including Susanville. Extensive damage to transportation systems as roads, bridges, and culverts are flooded or washed out. US Highway 395 is flooded. Major transportation, power, phone, and rural	5-		

REACH: MC COY FLAT RESERVOIR 20.3 MI. US, TO HONEY LAKE, ABOUT 24 MILES DS.

ELEVATION ZERO: 4200.30

LOCATION: Susan River AT Susanville, CA
ID: SUSC1

HSA: REV

Revised, Printed Dates: 12/2/2009
NWS FORM E-19 PAGE 9: STAFF

CONTACTS*

SQ	CONTACT/REMARKS	PHONE
1	Kieth Wemple-Honey Lake Valley Watermaster Mr. Wemple is Honey Lake Valley Resource Conservation District Watermaster.	1-530-257-7271
2	John Clements-CADWR Northern District Chief Mr. Clements maintains records for SUSC1 gage. EMAIL: clements@water.ca.gov	1-530-529-7323
3	Chip Jackson-Lassen Co. Emergency Manager Mr. Jackson has good knowledge of flood operations and flood problem areas in the County. FAX:530-251-2519. EMAIL: ChipJackson@frontiernet.net	1-530-251-8011
4	Stuart Ratner-Susanville Fire Chief Mr. Ratner has an excellent knowledge of flood problem areas within Susanville. EMAIL: sratner@cityofsusanville.org	1-530-257-5152
5	Chris Gallagher-Susanville Police Chief EMAIL: chief@cityofsusanville.org	1-530-257-6121
5	USGS WRD Redding, CA USGS Redding maintained gage through 9/1994, and has good information about their gage and flooding in the area.	1-530-246-5282

*Note: Only phone numbers and email addresses also available on agency websites are listed here.

LOCATION: Susan River AT Susanville, CA
ID: SUSC1 HSA: REV

Revised, Printed Dates: 12/2/2009
NWS FORM E-19 PAGE 10: CONTACTS

**Looking downstream from under the Lassen Street Bridge
Photo taken 4 Nov 2008**

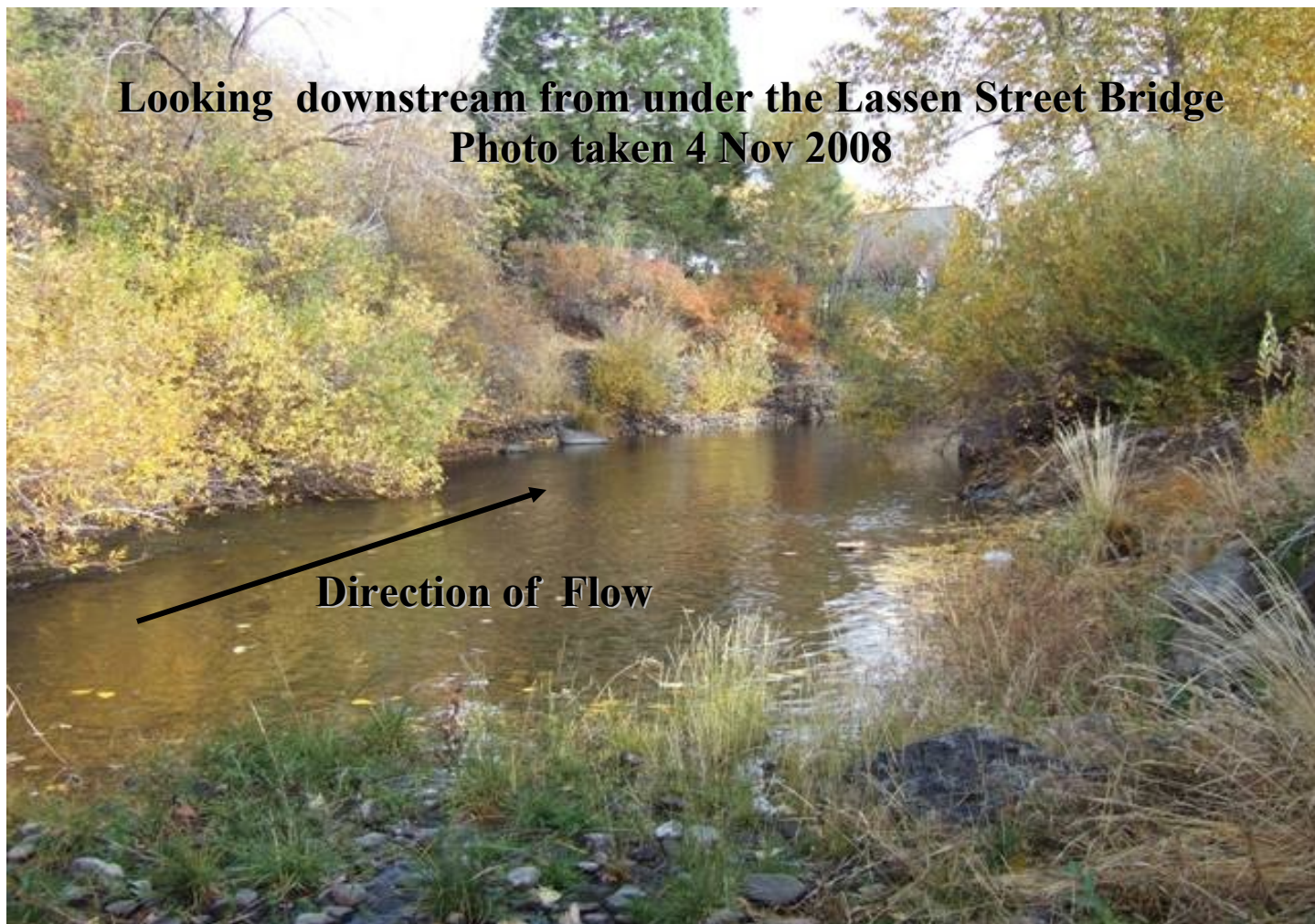


Photo taken looking downstream from the Lassen Street Bridge. Structure in the distance is a house located on the left bank downstream from the gage site.

LOCATION: Susan River AT Susanville, CA
ID: SUSC1 HSA: REV

Revised, Printed Dates: 12/2/2009
NWS FORM E-19 PAGE 11-1: PHOTOS

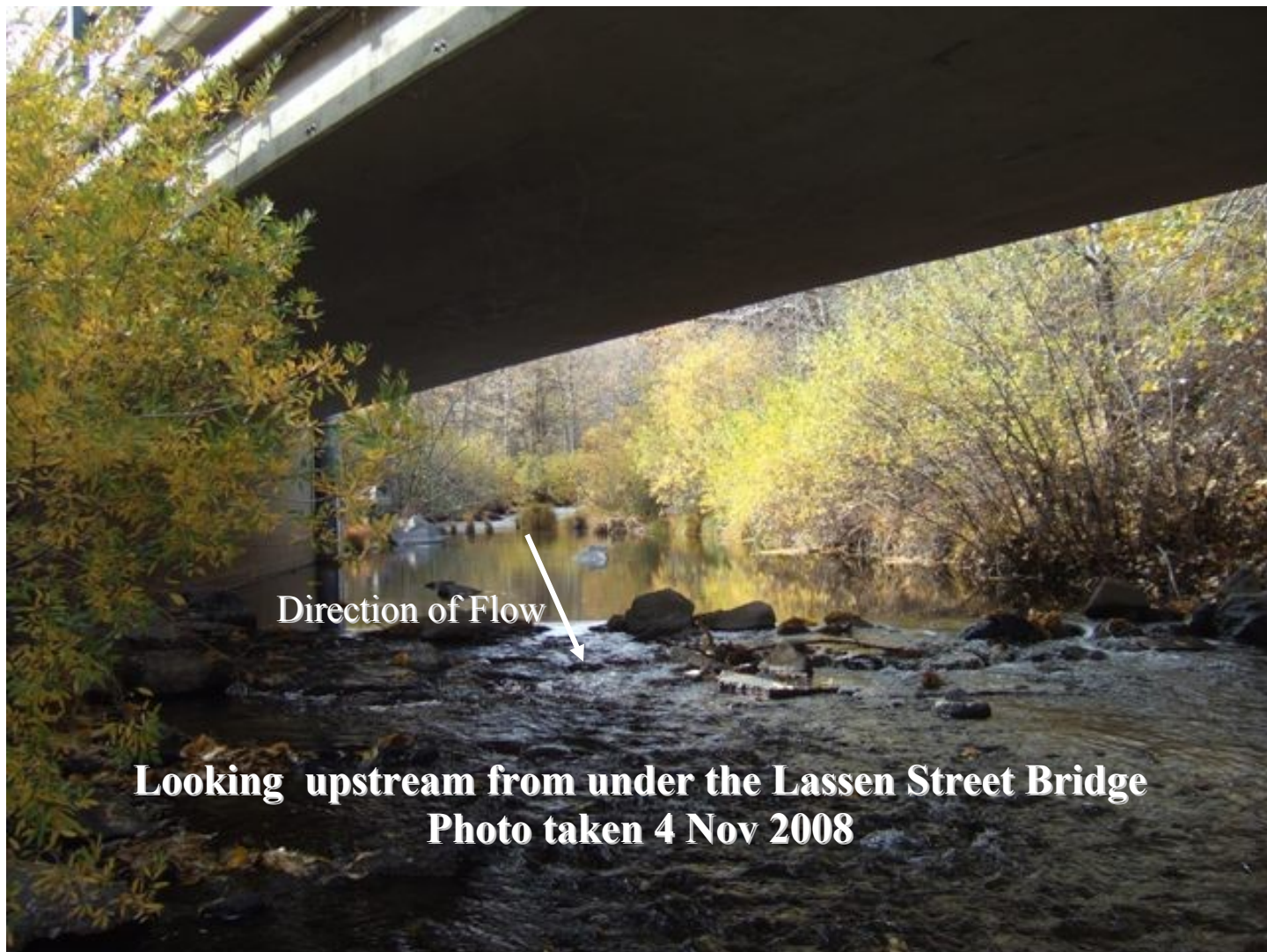


Photo taken looking upstream from just below the Lassen Street Bridge. There is a road and a few houses on the left bank well above the level of the river. These are concealed by the trees in the picture.



Photo showing location of outside staff gages at the Susanville, CA river gage. The lower staff gage has a range of 4.5 feet to 9.0 feet. The photo was taken with the water level approximately 0.5 feet below the bottom of the lower staff gage. The upper staff has a range of 8.0 feet to approximately 17.0 feet.